NOTES:

1. FOR GENERAL NOTES REFER TO 000-PR-PID-0001/0002/0003/0004.
2. ALL INSTRUMENT TAGS ARE PREFIXED WITH THE AREA NUMBER SHOWN ON THIS P&ID UNLESS OTHERWISE NOTED.
3. TUNDISH INSTALLED ABOVE WORKING LEVEL.
4. REAGENT ADDITION TO CELL 1 VIA A VENDOR SUPPLIED TUNDISH.
5. FLOTATION CELL DART VALVES MAY BE OPERATED INDEPENDENTLY. CONTROL PROGRAMMING SHALL INCLUDE PROVISION FOR INDEPENDENT DART VALVE LEVEL CONTROL.

VENDOR PACKAGE
REFER TO VENDOR P&ID
1824-V0015-PR-PID-0002

PROCESS WATER
391-PR-PID-3005
200-WPA-SC1-471
200BF3-03021
274-P-009

FLOTATION AIR
392-PR-PID-9001
600-ALP-SC4-011
600BF3-03022
280-P-003

ROUGHER 2 CELL 1 FROTHER PUMP
389-PP-9202
389-PR-PID-9201
20-RFR-PE3-036
270-M-011

ROUGHER 2 CELL 1 COLLECTOR PUMP
389-PP-9302
389-PR-PID-9301
20-RCL-PE3-119
271-M-011

ROUGHER 2 CELL 1 PROMOTER PUMP
389-PP-9102
389-PR-PID-9101
8-RCL-PF2-056
269-M-004

ROUGHER 2 FEED PUMP
322-PP-9007
322-PR-PID-9003
900-SPP-SL1-115
100-M-014

ROUGHER 1 AND 2 3rd CONC PUMP 2
332-PP-9010
332-PR-PID-9009
225-SPP-PE4-088
136-M-002

ROUGHER 2 SUMP PUMP
332-PP-2002
332-PR-PID-2004
280-SSU-PE4-021
PE4 SC3
127-M-016
127-M-016

127-M-001

ROUGHER 2 CELL 2
332-FT-2002
332-PR-PID-2002

ROUGHER 2 CELL 2
332-FT-2002
332-PR-PID-2002

FIT FV FIC
AE 2701
PI
SP-335
SP-928
SP-335
NOTE 3
NOTE 4
VSD M
LIT LIC
NOTE 5
LV LV
(25BA1)
AIT 2002 pH
AI 2002
YV 2001 YV4
DETAIL
25BA1-03025

332-BX-2001

DN250
250-SPP-SC1-468
TO GRADE
40BA1-03023
DN50
DN80
332-FT-2001
DN150 DN150

ROUGHER 2 CELL 2
332-FT-2002
332-PR-PID-2002

PROCESS WATER
332-PR-PID-9005
50-WPA-SC1-465
142-P-010

332-BX-2002
332-BX-2003
50x25
25-WPA-SC1-1277
25x10
25BA1-03024

127-M-008

332-LA-2001

ROUGHER 1 AND 2
1st CONC. HOPPER
332-HP-9001
332-PR-PID-9005

332-BX-2001	332-BX-2002	332-BX-2003	332-FT-2001	332-LA-2001
ROUGHER 2 FEED BOX	ROUGHER 2 CELL 1 CONC. BOX 1	ROUGHER 2 CELL 1 CONC. BOX 2	ROUGHER 2 CELL 1	ROUGHER 2 CELL 1 CONC. DISCHARGE LAUNDER

DRG No	REFERENCE DRAWINGS	REV	DATE	DESCRIPTION	DRN	CHK'D	DESIGN ENG.	LEAD ENG.	DESIGN APP'D	PROJ. APP'D	CLIENT APP'D
		2	16MAR18	REVISED AS SHOWN	DB	VA	MT	SB	BG	LG	
		1	17FEB17	REVISED AS NOTED (74 MTPA CASE)	CB	BT	DB	SB	BG	SM	
		0	08OCT15	ISSUED FOR CONSTRUCTION	WG	GCP	DB	SB	BG	SM	

Minera Panamá

DRAWN	CHECKED	DESIGN ENG.	LEAD ENG.	DESIGN APP'D	PROJ. APP'D	CLIENT APP'D

CLIENT MPSA
PROJECT MINA DE COBRE PANAMA

FIRST QUANTUM MINERALS LTD.

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DRAWING TITLE
COPPER ROUGHER FLOTATION
ROUGHER 2 - SHEET 1
PIPING & INSTRUMENTATION DIAGRAM

SCALE	JOB No.	DRG No.	REV.
NTS	1824	332-PR-PID-2001	2

DRAWN JSV DATE 18NOV13